

FIRE BATTLES 9/ NEW YORK'S
" FLY ING " ·SQUADRON



Motor Water Tower.

BY JOSEPH JOHNSON, New York Fire Commissioner.

(Copyright, 1913, by the New York Herald Co. All rights reserved.) Y the flashing of a ignal from Fire leadquarters, on the apper east side of

Manhattan Island, seventy-two modern motor propelled fire ighting machines could be mobilized in a few minutes around a blaze in practically any part of the city. These powerful motor ve-

JOHNSON constitute the flying squadron of New York city's Fire Department. They are the product of the fighting here.

ment will be called a "flying squadron," for hand pump seem ludicrously inadequate. York's motor vehicles on duty to-day :the era of fire horses will have passed even for those days of small buildings. and the city's Fire Department placed en- When we began motorizing the Fire De- Second size motor propelled steam fire of motor fire apparatus over that of the fire horses." Some of New York's senti- Steam fire engine propelled by couplehorse drawn type has been clearly dem- mental citizens bemoaned the fact that gear tractor ...... 1 onstrated during the last year or two. In these noble animals were to be relegated to Gasolene propelled and pumping engine 1 the first place the motor machines are the past. The nature of the service of these Combination hose and chemical wagons 26 far swifter than are the horses. An aver- fine beasts, their lovable dispositions and Motor driven hose wagons ...... 15 age speed of thirty-five miles an hour can the intelligence shown by many of them! Motor driven hose wagon (boat tender) be maintained by these motor engines and have endeared the fire horses to New Gasolene-electric aerial hook and lad-wagons, no matter what the length of the the average man. In a way I regret to see run may be. Speed in responding to an them go; but, after all, the matter of Touring cars in use by executive offialarm is vital in our work. Each minute efficiency and economy is of too great im- cers and bureaus...... 18 of delay means the fight will be harder and portance to the taxpayers of the city to Motor driven delivery trucks ...... 17 the fire a menace to surrounding property, allow sentimentality to interfere. Al-

others in the world; better than most-dred fire horses. This year we are purcan drag a heavy apparatus at the rate of twelve miles an hour for the first half hour in responding to an alarm. After that their speed slackens until, if the run is a long one, they are travelling practi- 66 9 ROSS country to the great Pacally at a walk by the time the blaze is reached. In hill climbing and in ploughing apparatus also demonstrates its superi- scouts are arranging for a trek across the one of our steepest, on which new appa. and ending in San Francisco. ratus is tested, often staggers our best fire Never before has such an ambitious unhorses. The motor apparatus takes it on dertaking been entered into by the Amerithe run.

torization of New York's Fire Depart | work, even for Mr. Weston and other proment was the economy in maintenance fessional pedestrians. But Mr. Ernest of motor vehicles. When not responding Galiardo, scout master and captain of the to fires there is no expense attached to American Boy Scouts, who will be in maintenance. With the horse draws ap- charge of the San Francisco expedition, paratus the case is different. The horses has had a great deal of experience in conhave to be fed regularly no matter wheth- ducting parties of boy marchers before, er they have to respond to fires or not and he hasn't a bit of doubt that the Both efficiency and economy in motoriza- scouts will make a record journey. tion have been demonstrated by actual First comes the question of choosing experience.

span of years to the days of New York's ment of boys who would like to go, but volunteers and the crude hand pumps the head scouts haven't any intention of od of fighting fires that the last two ter for the long hike.

Our fire horses—as good at least as any ready we have retired nearly four hun-

increased there came the need for greater; chasing not a single horse, nor do I bewater pressure. And so there came, first, keve we will ever purchase horses again. hicles for fighting fire the steam pumping engine—a crude affair In all there are 164 motor vehicles either indeed when compared with the present in service in our Fire Department or type of powerful water lifting machine. | under contract for delivery during the New York's engines of the first class to- present year. One hundred and twentylast three years of development in fire day pump 900 gallons of water a minute. six of these are in service now and thirty-A comparison between this type and the eight will be delivered before the cold In a few years New York's entire depart- hand pump of our forefathers makes the weather arrives. Here is the list of New

One of the Flying Squadron Putting Out a Blaze.

Total number of motor vehicles in

Other Motor Vehicles.

85-foot motor driven aerial hook and ladder truck...... 75-foot motor driven aerial book and Second size motor propelled steam fire ladder trucks.....

peculiar conditions in various parts of the city. Some of our hose wagons, for instance, are equipped with two chemical tanks, each tank holding thirty-five gallons of extinguishing fluid. The tanks, which are built under the driver's seat, do not interfere with the hose racks on the main body of the wagon. This type of apparatus is known as the "chemical scout" and is peculiarly adapted to the suburbs, where not only high speed is required but where fire can often be conquered in its incipiency with a chemical fluid. Another and heavier type of hose

machine manufactured in this country by reputable apparatus men we drew specifications for standard motor driven fire

fighting machines. As a result of our studies on the apparatus subject we have adopted four distinct types-First, a steam pumping engine propelled by a front drive gasolene tractor which can turn in its own length; second, a gasolene propelled and pumping engine; third, a motor propelled book and ladder truck, and fourth, a gasolene driven hose wagon. Of these types there are several styles adapted to the

district. One phase of the motor apparatus question in which we moved with particular caution was that of adopting a gasolene pumping engine. After testing several we purchased a powerful engine from a manufacturer in the West and placed it in service with Engine Company 39, on the

wagon is designed for the high pressure

The Motor Hook and Ladder Truck and the Water Tower at a Blaze.

Chemical "Scout" Hose Wagon,

8,65-foot motor driven aerial hook and

Other Motor Vehicles.

taller than any others in the world-ne-year.

a standard in the initial stages of motori- panies in the city.

g one of the first problems. After ex-pumping type of engine with a gasolene haustive tests of practically every type of front drive tractor. This decision was

Gasolene propelled and pumping en- that the apparatus could be observed in gines (not yet awarded) ......... 2 service by the members of my apparatus board. This engine, which was christened Two ton motor delivery trucks ..... 2 "The Giant" by some of our newspaper friends, is propelled by a one hundred and Total number of motor vehicles under twenty-six horsepower gasolene motor.

contract ...... 38 The pump, a piston drive, is operated also The job of motorizing a fire department by this motor. The apparatus weighs more such as New York's carries with it diffi- than six tons. It pumps between 700 and culties which are not encountered in 800 gallons of water a minute. Its speed smaller cities. The character of our build- is thirty-five miles an hour. The "Giant" ings-many of the commercial structures has been in service now for more than a

cessitates the installation of a heavier Another type of motor propelled fire type of apparatus than those which are engine-a front drive tractor affair at adequate for the average city. Another tached to the regulation steam pumperfactor is the great expense involved in was purchased about the same time as motorizing a department in which there "The Giant," and placed in service in En are more than six hundred pieces of ap-gine Company 58, at 115th street and paratus. A mistake in the adoption of Lenox avenue, one of the busiest com-

zation might mean the loss of many hun- The performances of each of these dreds of thousands of dollars to the city, pieces of apparatus were carefully When I began the administration of the watched. We decided that the part of Fire Department its motorization was wisdom would be too adhere to the steam

made partly because our old steam engines could be utilized in the motorization and partly because the gasolene pumping engine is still in an experimental stage. and pioneers, the great trappers and Several months ago I ordered twentywoodsmen with whose stories all boys are eight more steam fire engines with the front drive tractor and recently we have The exact route has not yet been de- placed a dozen or more of these in sercided upon, but the tracks of the Southern vice. The motor propelled hook and lad-Pacific Railroad will be followed pretty der trucks, which are driven by gasolene closely. Chicago will be regarded as the electric motors, have also been adopted as first goal of the journey. Here more boys a standard. The hose wagon problem was will perhaps be recruited and those boys the least difficult of all, as it involved no from New York who have decided that they complications which had not already been have had enough of tramping may return worked out by the makers of the aver-

boys will be taken in to fill the ranks in the development of apparatus for should they have become depleted. I fighting fires I do not know, but there Starting from New York, the route of is small doubt in my mind that the progthe young marchers will go through New ress of the future will prove even greater Jersey, Pennsylvania, Ohio, Indiana, Illi-than the progress of the past. Some of nois, Missouri, Kansas, Colorado, Utah, out aeronauts have suggested the use of the aeroplane in fighting fire from aloft.

It is estimated that it will take the It does not seem entirely unpractical, boys six months to reach the coast, and provided some powerful fire extinguishing as this will mean the loss of several bomb or grenade could be dropped from months' schooling the expedition will be a height sufficiently great to insure the accompanied by P. T. Mason, a graduate aeronaut's safety from the heat waves. of Harvard University, now a captain of I believe some experiments have been

as tutor. There will also be a military I am sure that H. G. Wells or some instructor, and it is possible that General other of our novelist prognosticators could Edwin A. McAlpin, the chief scout, will draw a vivid picture of fighting fire in go at least part of the way on the journey 1920 with a fleet of aero craft bombardforces, has had many experiences in fire and release some penetrating acid walking. A few years ago he took a party under which the blaze would die. I am of boys from Moscow, Russia, to Genoa, not a novelist, however; I am dealing Italy, and afterward he took a party from with facts, so I had better leave the pre-

## AMERICAN BOY SCOUTS TO HIKE TO SAN FRANCISCO.

Under contract there are :-

Fire Apparatus.

cific!" is the slogan most popular in the headquarters of the Amerithrough mud or heavy snow the motor can Boy Scouts these days. The head ority over the fire horses. Duffy's Hill, United States, beginning in New York

can Boy Scouts. Tramping more than Another determining feature in the mo- two thousand miles seems pretty heavy

the right scouts for the job. Already When one looks back through the short Captain Galiardo has heard from a regi-

generations has produced. This evolution | Accompanying the marchers there will desirable. were no skyscrapers in New York. The meals, help to put up their own tents strong and healthy.

that were used he must be impressed taking a regiment on such a trip. Only a Galiardo has very decided views in regard trip," says the leader. with the wonderful evolution in the meth- few picked scouts will be permitted to en- to physical development and he does not | Captain Galiardo does not believe in think that too much very heavy work is physical exercises which strain the body,

but in those which train it. has been a necessary one. In the days of be an automobile truck, which will carry The main object of the trip is not to In addition to the benefits to their Fabri. the hand pumps, when the volunteer the tents and commissary department of test the endurance of the boys, nor is it health it is thought that the boys will companies often fought each other before the army. Camp will be pitched every simply to see the country. What Captain gather from the trip a broadened interest

turning their attention to the fire, there night and the boys will cook all their Galiardo wishes to do is to make the boys in their country and in its history and

Paul Thomps

geography. They will follow the course of talled buildings were about three stories and play camp. Two men accomplished "To put into their physical machinery modern civilization across the continent in height. Even at that the hand pumps in the art of putting up tents will go the steam of life by keeping them out in and on the way will happen upon many could scarcely lift water to the roofs. along to take some of the heavy work off the fresh air and giving them the right sort spots dear to the heart of youth because As the height of New York's buildings the youthful shoulders, for Captain of exercise, that is the main object of the of its association with the early explorers

Bridge Building at Recent Manoeuvres at Hackensack, N. J.



Captain and Scout Master.

familiar. to their homes. The next goal of the age commercial trucks, journey will be Denver, at which city also What the future holds in store for us

Nevada and California.

the American Boy Scouts, who will act carried on along this line.

in an automobile. Captain Galiardo, ing a burning city with broadsides of who will be the physical director of the bombs which burst as they strike the Lucerne, Switzerland, to Marseilles, dictions as to aeroplanes and their bombs France.

Ernest Galiardo,